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09/985,879	11/06/2001	Joseph Nardone	003636.0126	4505

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EXAMINER

TRAN, QUOC A

ART UNIT	PAPER NUMBER
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2176

DATE MAILED: 04/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/985,879

Applicant(s)

NARDONE ET AL.

Examiner

Quoc A. Tran

Art Unit

2176

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 December 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-45 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

H/L

SC

### DETAILED ACTION

1. This action is responsive to Amendment A filed 12/10/2004.
2. Claims 1-45 are pending. Claims 1, 12, 19, 30 and 41 are independent claims.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1-2, 4-20, 22-29, 30-31, 33-40, 41-42 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable by Hawkins et al. US Patent No. 6,000,000 issued 12/07/1999 filed 05/04/1998 (hereinafter '000), in view of Pajakowski et al. US Patent No. 6,718,425 B1 issued 04/06/2004 filed 05/31/2000 (hereinafter '425).**

**Claim 1 is representing claims 2, and 4-11;**

**In regard to independent claim 1, "*selecting a first database and a second database; mapping at least one field of said first database to a corresponding field of said second database in a map file; programming a conduit with said map file; and executing said conduit with said map file in response to a synchronization request, wherein said conduit provides synchronization rules from said map file for said first database and said second database*", as taught by '000 at col. 2, line 55 through col. 4, line 22 (i.e.... synchronize the data between several different independent applications**

which run on the handheld computer system and the personal computer system using a single synchronization command... The synchronization system consists of three main program elements running on the personal computer system: a memory resident monitor program, a sync manager library, and at least one conduit library... first element is a memory resident monitor program, known as hotsync... second element is a sync manager library... invokes each conduit library one by one...), and also as taught by '000 at col. 4, lines 20-25 (i.e.... FIG. 4 illustrates a block diagram of architecture for synchronizing databases on a handheld computer system and a personal computer system...);

'000 does not explicitly teach, "*graphical user interface*", however, as taught by '425 at col. 15, lines 33-37 (i.e.... The user interface ... is designed to be an intuitive presentation of public data link information. Users familiar with the Palm type handheld computer style interface should have no problems navigating screens and interpreting information...).

*It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a feature, wherein the graphical user interface is embedded in the system. One of the ordinary skills in the art would have been motivated to perform such a modification to perform application specific tasks desired by the user, as taught by '452 at col. 15, lines 33-55 (i.e. The user interface...).*

***In regard to dependent claim 2,*** "browsing for one of said first database and said second database in response to selection of said first database and said second database; and importing said other one of said first database and said second

database in response to selection of said first database and said second database", as taught by '000 at col. 5, lines 25-40 (i.e.... *The sync manager library 410 implements a library of functions that are made available to other programs for synchronizing databases. To communicate with the handheld computer 110 the sync manager library 410 also uses the communication link code such as communication link X code 451 that controls communication link X 411... the sync manager library 410 oversees the synchronization process and uses individual "Conduit" libraries to perform the synchronization of each database...*).

**In regard to dependent claim 4**, "mapping of said at least one field of said first database to said respective field of said second database to said map file", as taught by '000 at col. 7, lines 40-50 (i.e.... *read the databases. For this particular conduit that synchronizes two databases, the conduit library 421 opens up a local database located on the personal computer at step 615. At step 620, the conduit library then calls the function SyncOpenDB() in the sync manager library 410 to open up a corresponding database on the handheld computer 110...SyncOpenDB() function and other database functions... Next the conduit creates an empty file on the PC at step 630 to copy information from the database on the handheld computer system 110. The conduit library 421 may read the records from the handheld database one by one until an entire copy of the handheld database is created on the personal computer system ...*), also as taught by '000 at col. 21, lines 1-20 (i.e.... *The fields of the display configuration records are shown in the following table...*).

**In regard to dependent claim 5**, “selecting said first database from said second graphical user interface; importing a plurality of fields of said first database; and displaying said plurality of fields of said first database”, as taught by ‘000 at col. 7, lines 40-50 (i.e.... read the databases. For this particular conduit that synchronizes two databases, the conduit library 421 opens up a local database located on the personal computer at step 615. At step 620, the conduit library then calls the function SyncOpenDB() in the sync manager library 410 to open up a corresponding database on the handheld computer 110...SyncOpenDB() function and other database functions... Next the conduit creates an empty file on the PC at step 630 to copy information from the database on the handheld computer system 110. The conduit library 421 may read the records from the handheld database one by one until an entire copy of the handheld database is created on the personal computer system ...), also as taught by ‘000 at col. 21, lines 1-20 (i.e..... The fields of the display configuration records are shown in the following table...).

**In regard to dependent claim 6**, “selecting said second database from said second graphical user interface; importing a plurality of fields of said second database; and displaying said plurality of fields of said second database”, as taught by ‘425 at col. 21, lines 1-20 (i.e..... The fields of the display configuration records are shown in the following table...).

**In regard to dependent claim 7**, incorporate substantially similar subject matter as cited in claims 1-2, and 4-6 above, and in further view of the following, and is similarly rejected along the same rationale.

*"displaying said initial set of rules for said mapping of said plurality of fields", as taught by '425 at col. 36, lines 5-15 (i.e.... customization... Conduit customization is achieved by accessing the HotSync Manager.sup.6 by right clicking the icon located in the bottom right portion of the PC screen and choosing Custom. Currently, the only options are to allow the conduit to transfer data from the handheld organizer to the PC ...).*

**In regard to dependent claim 8,** *"The method according to claim 7, further comprising: selecting a rule from said set of rules; and deleting said rule from said set of rules", as taught by '425 at col. 14, lines 25-30 (i.e.... The status of each data item is indicated by the display. ... and to delete individual records. As this information is pulled from a data file--not a string of datalink messages ...).*

**In regard to dependent claim 9,** incorporate substantially similar subject matter as cited in claims 1-2, and 4-7 above, and in further view of the following, and is similarly rejected along the same rationale.

**In regard to dependent claim 10,** incorporate substantially similar subject matter as cited in claims 1-2, and 4-7 above, and in further view of the following, and is similarly rejected along the same rationale.

**In regard to dependent claim 11,** *"The method according to claim 10, further comprising: saving said set of rules as said map file", as taught by '000 at col. 11, lines 40-45 (i.e.... Instructs the handheld computer system to locate and retrieve the information then store it in the passed structure. The calling client Conduit library must allocate enough memory in the general data area to hold the responding information...).*

**In regard to independent claim 12**, incorporate substantially similar subject matter as cited in claim 1 above, and is similarly rejected along the same rationale.

**In regard to independent claim 13**, incorporate substantially similar subject matter as cited in claims 1-2 above, and is similarly rejected along the same rationale.

**In regard to independent claim 14**, incorporate substantially similar subject matter as cited in claim 2 above, and is similarly rejected along the same rationale.

**In regard to independent claim 16**, incorporate substantially similar subject matter as cited in claim 8 above, and is similarly rejected along the same rationale.

**In regard to independent claim 17**, incorporate substantially similar subject matter as cited in claims 7, 9, and 10 above, and is similarly rejected along the same rationale.

**In regard to independent claim 18**, incorporate substantially similar subject matter as cited in claim 11 above, and is similarly rejected along the same rationale.

**In regard to claims 19-20 consecutively**, are directed to a computer readable medium for performing the method of claims 1-2 consecutively, and are similarly rejected along the same rationale.

**In regard to claims 22-29 consecutively**, are directed to a computer readable medium for performing the method of claims 4-11 consecutively, and are similarly rejected along the same rationale.

**In regard to claims 30-31 consecutively**, are directed to an apparatus for performing the method of claims 1-2 consecutively, and are similarly rejected along the same rationale.



**In regard to claims 33-40 consecutively**, are directed to an apparatus for performing the method of claims 4-11 consecutively, and are similarly rejected along the same rationale.

**In regard to claims 41-42**, are directed to a conduit for performing the method of claims 1-2, and are similarly rejected along the same rationale.

**In regard to dependent claim 45**, *"The conduit according to claim 41, wherein each mapping file of said plurality of mapping files is configured to specify a direction of overwrite of data between a first database and a second database"*, as taught by '425 at col. 5, line 55 through col. 36, lines 5-15 (i.e.... To transfer data, select either the Synchronize the files<sup>7</sup> or the Handheld overwrites Desktop option. To disable the conduit, select the Do Nothing option. The conduit does nothing in the Desktop overwrites handheld mode because data can only be transferred one way--from the handheld organizer to the PC...).

5. **Claims 3, 21, 32, and 43-44 are rejected under 35 U.S.C. 103(a) as being unpatentable by Hawkins et al. US Patent No. 6,000,000 issued 12/07/1999 filed 05/04/1998 (hereinafter '000), in view of pajakowski et al. US Patent No. 6,718,425 B1 issued 04/06/2004 filed 05/31/2000 (hereinafter '425), further in view of Hawkins et al. US Patent No. 6,330,618 issued 12/11/2001 filed 05/25/1999 (hereinafter '618).**

**In regard to dependent claim 3**, '000 and '435 do not explicitly teach, *"wherein said one of said first database and said second database is a client application database and said other one of said first database and said second database is an*

*enterprise application database*”, however, as taught by ‘618 at col. 10, lines 5-30 (i.e.... Hot Sync Program 615 can use the network address of the preferred personal computer to access the Hot Sync Manager Program on the preferred personal computer that is coupled to the TCP/IP Local Area Network 650... Sync Program 715 in the global computer system establishes a PPP or SLIP connection with an Internet Service Provider (ISP) 740. The SLIP/PPP session is established between the SLIP/PPP client on the portable computer system 710 and a SLIP/PPP server 743 at the ISP 740. The SLIP/PPP server at the ISP 740 can communicate across the global Internet to any Internet addressable location...).

*It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include a feature, wherein the databases are a client/server application database. One of the ordinary skills in the art would have been motivated to perform such a modification to integrate the handheld computer system and personal computer system, wherein the synchronizes software would easily recognize different synchronization environments (client/server) and minimal users interaction, as taught by ‘618 at Abstract (i.e....A tightly integrated the palmtop computer system and personal computer system...).*

**In regard to dependent claim 21**, is directed to a computer readable medium for performing the method of claim 3, and is similarly rejected along the same rationale.

**In regard to dependent claim 32**, is directed to an apparatus for performing the method of claim 3, and is similarly rejected along the same rationale.

**In regard to dependent claim 43**, is directed to a conduit for performing the method of claim 3, and is similarly rejected along the same rationale.

**In regard to dependent claim 44**, *"The conduit according to claim 43, wherein other of said first database and said second database is an enterprise database"*, as taught by '425 at col. 5, line 55 through col. 6, line 22 (i.e.... four primary system components: a handheld computer 12, such as a Palm Pilot.RTM. device, an adapter system 14, a handheld computer cradle 16 and a personal computer (PC) 18. ... transported to a central database for more advanced business analysis ...).

### ***Response to Argument***

6. Examiner has completed a through study of Applicant's Amendment and Remark filed 12/10/2004; Applicant's arguments have been fully considered but they are not persuasive. The reason for rejection was set forth in the previous rejection, a copy is cited above.

### **Reponses to Remarks pages 20-21:**

In regard to the rejection of claims 1-2, 4-20, 22-29, 30-31, 33-40, 41-42 and 45, Applicant argues that, Hawkins failed to disclose, how the synchronization program that selects two databases is created, and the Office has not established a prima facie case of Hawkins in further view of Pajakowski. The Office respectfully disagreed, for more detail sees the previous rejection, which set forth in the rejection above, and the following reasons:

Also as illustrated at Figure 4 sheet 4 of 7, Hawkins disclosed a block diagram of an architecture for synchronizing databases on a handheld computer system and a

personal computer system. The synchronization architecture illustrated in FIG. 4 accommodates several different application programs with associated databases running on the personal computer 150 and the handheld computer system 110, wherein connecting said first computer system to said second computer system with a data communications link; providing a library of functions in said second computer system for accessing information on said first computer system; creating a conduit program database, said conduit program database for storing a list of conduit programs that may be executed, registering a first conduit program by placing an identifier for said first conduit program in said conduit program database, said first conduit program comprising a computer program on said second computer system for performing a specific data transfer task; successively executing a set of conduit programs identified within said conduit program database from a manager program, each of said conduit programs accessing said library of functions for communicating with said first computer system; these evidenced the processes of Hawkins's teaching of how the synchronization program that selects two databases is created.

Hawkins does not explicitly teach, “ *graphical user interface* ”, however, as taught by Pajakowski at col. 15, lines 33-37 and col. 18, lines 5-40, wherein the GUI was utilized such as Palm type handheld computer style interface, wherein the PC module provides the mechanism for moving data collected on the handheld computer to a personal computer. This serves three primary purposes: to provide memory for additional records on the handheld computer, to consolidate data from multiple handheld computers, and to allow the data to be analyzed by applications external to

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the system (i.e. databases, spreadsheets, etc.) The PC module also serves as the mechanism for moving program updates onto the handheld computer. Application files that are obtained over the internet, by email, or on disk can be loaded into the handheld computer's memory, also programs and files are moved to and from the handheld computer through standard interface pathways called 'conduits.' Packaging these items as conduits allows the system to utilize a great deal of functionality that already exists through the handheld support package. It also allows the transfer of this information (called synchronization) to be integrated with the transfer of data from other applications residing on the handheld computer (e.g. calendar, address book, task list, etc.).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified Pajakowski into Hawkins to provide a way to include the feature, wherein the graphical user interface is embedded in the system. One of ordinary skill in the art would have been motivated to perform such a modification to provides a convenience, portability, low cost for display and upload of handheld devices with limited storage and computing capabilities, limited battery life and their limited porting capabilities, as taught by Pajakowski at col. 2, lines 25-50 (i.e... convenience, portability, low cost make them desirable as a device for assisting in the extraction, display and upload of engine/vehicle information for transfer, e.g. via the internet...).

There for claims 1-2, 4-20, 22-29, 30-31, 33-40, 41-42 and 45 remain rejected.

**Reponses to Remarks pages 22-24:**

In regard to the rejection of claims 3, 21, 32, and 43-44, Applicant argues that, Hawkins2 failed to disclose, how the synchronization program that selects two databases is created, and the Office has not established a prima facie case of Hawkins in further view of Pajakowski. The Office respectfully disagreed, for the same responses to Remarks pages 20-21 above.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. In this case the Office rejected claims 3, 21, 32, and 43-44 under 35 U.S.C. 103(a) as being unpatentable by Hawkins et al. US Patent No. 6,000,000 issued 12/07/1999 filed 05/04/1998 (hereinafter '000), in view of Pajakowski et al. US Patent No. 6,718,425 B1 issued 04/06/2004 filed 05/31/2000 (hereinafter '425), further in view of Hawkins et al. US Patent No. 6,330,618 issued 12/11/2001 filed 05/25/1999 (hereinafter '618), see the detail of the rejection above.

There for claims 3, 21, 32, and 43-44 remain rejected.

***Conclusion***

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (571) 272-4103. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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**Quoc A. Tran**

**Patent Examiner**

**Technology Center 2176**

**April 13, 200**



**SANJIV SHAH**  
**PRIMARY EXAMINER**